

108801

VALIDATION SHEET

CRF#

PAGE OF

FORMULATION:			IA	IB	T	FW	EC	R		
% a.i.	SC#	CHEMICAL NAME	Validator:						Date:	
Technical		Metolachlor	R. Balcomb						7/20/78	
		CGA-24705	Test Type:							
			Bluegill Sunfish:							
			96-hr LC ₅₀							
			Test ID.# ES - F							

CITATION: Buccafusco, Robert J., 1978. Acute Toxicity of CGA-24705 to Bluegill Sunfish (Lepomis macrochirus). Report # BW-78-6-181), EG & G - Warcham, Mass.

VALIDATION CATEGORY: Core

RESULTS:		LC ₅₀ Values (mg/l)			
24 hr	48 hr	72 hr	96 hr	No effect	
>19 <28	16	13	10	6.0	
	(13-18) ¹	(11-16)	(8.6-12)	(96 hrs)	

(¹ 95% Confidence interval)

PROCEDURE: The study generally follows EPA guidelines. Young bluegill sunfish, mean wt. (0.90(±0.2) grams and mean length 44 (±3) millimeters, were held for 14 days prior to testing at the test temperature of 22°C. The testing was performed in 19.6-liter glass jars with 10 fish used per concentration level; the test concentrations (nominal) were: 1.9, 2.8 4.1, 6.0, 8.8, 13, 19 and 28 mg/l. Control and acetone-control groups were also tested. The statistical analysis followed a moving average approach (Harris, E. K. 1959. Biometrics, Vol. 4, #3, pp. 157-164.)

VALIDATION CATEGORY RATIONALE: The study adheres to EPA guidelines. The statistics were checked by recalculating via the Weil technique (Weil, Carrol S., 1952. Biometric, Vol. 8., No. 3 p. 249-263.). A comparable value was obtained: 96 hr LC₅₀ = 10.3 (9.5 - 11.1)mg/l.

REPAIRABILITY: N/A

SPECIAL NOTE: The report described the test material only as CGA-24705. Dr. Jack A. Norton, Regulatory Specialist for Ciba-Geigy, was contacted by phone (919-292-7100) for a more complete description of the compound. CGA-24705 is, according to Dr. Norton, technical metolachlor.